

Date: Wednesday, 10/3/2007 8:35:21 AM  
 User: Kim Johnston

## Process Sheet

44

Customer : CU-DAR001 Dart Helicopters Services Drawing Name : HELI ACCESS STEP EXT HIGH GEAR  
 Job Number : 34975  
 Estimate Number : 12874  
 P.O. Number :  
 This Issue : 10/3/2007 S.O. No. :  
 Prsht Rev. : NC Part Number : D205633025  
 First Issue : / / Type : LARGE FAB ASSY Drawing Number : DSI 9300 REV B  
 Previous Run : 32508 Drawing Revision : B  
 Material :  
 Due Date : 10/30/2007 Qty: 2 Um: Each  
 Written By :  
 Checked & Approved By : 07.10.03  
 Comment : Est Rev: B Added D3165-1 KJ/JLM 05-09-09

## Additional Product

Job Number:



Seq. #: Machine Or Operation: Description :

1.0 DC DOCUMENT CONTROL



Comment: DOCUMENT CONTROL

Photocopy bluefile &amp; type labels per PPPD205-633-025

CHG001

07.10.04

5 02/10/15

2.0 PACKAGING 1 PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Pick Packing Kit

3.0 D2022101 Spacer



Comment: Qty.: 4.0000 Each(s)/Unit Total: 8.0000 Each(s)

Spacer

Batch: 330543

4.0 D2022103 Spacer



Comment: Qty.: 2.0000 Each(s)/Unit Total: 4.0000 Each(s)

Spacer

Batch: 325967

5.0 D2562005 Strut



Comment: Qty.: 1.0000 Each(s)/Unit Total: 2.0000 Each(s)

Strut

Batch: 332575

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE		By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)							
DATE	STEP	Description of NC Section A	Corrective Action		Section B		Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng		Sign & Date			

NOTE: Date & initial all entries

Date: Wednesday, 10/3/2007 8:35:22 AM  
User: Kim Johnston

## Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: HELI ACCESS STEP EXT HIGH GEAR

Job Number: 34975

Part Number: D205633025

Job Number:



Seq. #:

Machine Or Operation:

Description :

6.0

D2563

Step Weldment Assembly



Comment: Qty.: 1.0000 Each(s)/Unit Total : 2.0000 Each(s)  
Step Weldment Assembly  
Batch: 34346A

4/10/15 SP (2x)

7.0

D31651

Support Arm



Comment: Qty.: 1.0000 Each(s)/Unit Total : 2.0000 Each(s)  
Support Arm  
Batch: B34988

CP

8.0

D2565301

Strut



Comment: Qty.: 1.0000 Each(s)/Unit Total : 2.0000 Each(s)  
Strut  
Batch: B26639

CP

9.0

D2565303

Strut



Comment: Qty.: 1.0000 Each(s)/Unit Total : 2.0000 Each(s)  
Strut  
Batch: B26640

CP

10.0

D2565305

Strut



Comment: Qty.: 1.0000 Each(s)/Unit Total : 2.0000 Each(s)  
Strut  
Batch: B26641

CP

11.0

D2565307

Strut



Comment: Qty.: 1.0000 Each(s)/Unit Total : 2.0000 Each(s)  
Strut  
Batch: B26642

CP

12.0

D2565309

Strut



Comment: Qty.: 1.0000 Each(s)/Unit Total : 2.0000 Each(s)  
Strut  
Batch: B26643

CP

CP 10/10/15 (2)

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE		By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)							
DATE	STEP	Description of NC Section A	Corrective Action		Section B		Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng		Sign & Date			

NOTE: Date & initial all entries

Date: Wednesday, 10/3/2007 8:35:22 AM  
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## Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: HELI ACCESS STEP EXT HIGH GEAR

Job Number: 34975

Part Number: D205633025

Job Number:



Seq. #:

Machine Or Operation:

Description :

13.0

D3437045

Aft Strut Assembly



Comment: Qty.: 1.0000 Each(s)/Unit Total : 2.0000 Each(s)  
Aft Strut Assembly  
Batch: B34294 -

14.0

AN45A

Bolt



Comment: Qty.: 1.0000 Each(s)/Unit Total : 2.0000 Each(s)  
Bolt  
Batch: M100857 -

15.0

AN46A

Bolt



Comment: Qty.: 3.0000 Each(s)/Unit Total : 6.0000 Each(s)  
Bolt  
Batch: M104322 -

16.0

AN47A

Bolt



Comment: Qty.: 1.0000 Each(s)/Unit Total : 2.0000 Each(s)  
Bolt  
Batch: M102140 -

17.0

AN412A

Bolt



Comment: Qty.: 1.0000 Each(s)/Unit Total : 2.0000 Each(s)  
Bolt  
Batch: M105143 -

18.0

AN414A

Bolt



Comment: Qty.: 1.0000 Each(s)/Unit Total : 2.0000 Each(s)  
Bolt  
Batch: M102473 -

19.0

AN44 7A

EYEBOLT



Comment: Qty.: 1.0000 Each(s)/Unit Total : 2.0000 Each(s)  
EYEBOLT  
Batch: M18034 -

\*\*\*\*\*ENSURE THIS IS AN44-7A EYEBOLT\*\*\*\*\*

*CP Both 11/15(2)*

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE		By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)							
DATE	STEP	Description of NC Section A	Corrective Action		Section B		Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng		Sign & Date			

**NOTE:** Date & initial all entries

# Process Sheet

**Drawing Name:** HELI ACCESS STEP EXT HIGH GEAR

Part Number: D205633025



**Description :**

Bolt



AN514A

Bolt

1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

2. The second step is to define the objectives and goals of the project. This involves determining what you want to achieve and how you will measure success.

3. The third step is to develop a plan of action. This involves identifying the steps that need to be taken to achieve the objectives and goals.

4. The fourth step is to implement the plan. This involves putting the plan into action and monitoring progress.

5. The fifth step is to evaluate the results. This involves assessing the outcomes of the project and determining whether the objectives and goals have been achieved.

6. The sixth step is to report on the results. This involves communicating the findings of the project to the relevant stakeholders.

7. The seventh step is to reflect on the process. This involves thinking about what worked well and what could be improved for future projects.

8. The eighth step is to share the results. This involves making the findings of the project available to others who may be interested.

9. The ninth step is to celebrate success. This involves acknowledging the achievements of the team and celebrating the successful completion of the project.

10. The tenth step is to learn from the experience. This involves reflecting on the project and identifying lessons learned that can be applied to future projects.

AN960JD416

Washer

[illegible]

AN960JD516

Washer



MS21042L4

Nut

... ..

MS21042L5

Nut

[illegible]

QC4

INSPECT 100% KITS FOR COMPLETENESS

**Comment: INSPECT 100% KITS FOR COMPLETENESS**

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE		By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
A-10-16	20.0 21.0	step 20.0 parts were repeated to 21.0. remove step 20.0, perm. change		[Signature]	07.10.16	-	[Signature] 07.10.16	[Signature] 07.10.16

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)							
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			Initial Chief Eng	Action Description Chief Eng		Sign & Date			

NOTE: Date & initial all entries



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Drawing Name: HELI ACCESS STEP EXT HIGH GEAR

Job Number: 34975

Part Number: D205633025

Job Number:



Seq. #:

Machine Or Operation:

Description :

27.0

PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Identify and pack for shipping as per PPP D205-633-025

Location: *Draft*

PPP Rev: *7/10/15 SP*

28.0

QC21

FINAL INSPECTION/W/O RELEASE



*07.10.16* *[Signature]*

Comment: FINAL INSPECTION/W/O RELEASE

Job Completion



*U 07.10.16*

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE		By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector



Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)							
DATE	STEP	Description of NC Section A	Corrective Action		Section B		Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng		Sign & Date			

**NOTE:** Date & initial all entries

**DART**

DESIGN RF	DRAWN BY RF	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
CHECKED 	APPROVED 	DRAWING NO. DSI 9300	REV. B SHEET 1 OF 6
DATE 05.08.12		TITLE SIMPLEX TANK STEP	SCALE NTS
A	05.05.05	NEW ISSUE	
B	05.08.12	ADD STRUTS IF TANK REMOVED	

## DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D205-633 REV. A

REF. CANADIAN STC: SH96-57

REF. FAA STC: SR00592NY, SR00593NY, SR00594NY

THE PURPOSE OF THIS SERVICE INSTRUCTION IS TO ADD THE D205-633-021/-022/-023/-024/-025/-026 STEPS TO ADDRESS COMPATABILITY WITH THE SIMPLEX MODEL 304 FIRE ATTACK TANK. D205-633-021/-022 ARE IDENTICAL TO D205-633-011, EXCEPT AS SHOWN HERE. D205-633-023/-024 ARE IDENTICAL TO D205-633-013, EXCEPT AS SHOWN HERE. D205-633-025/-026 ARE IDENTICAL TO D205-633-015, EXCEPT AS SHOWN HERE.

NOTE THAT THE STRUTS REQUIRED TO INSTALL THE STEPS ON THE LOWER AFT HARDPOINT HAVE ALSO BEEN INCLUDED WITH THE KITS IN CASE THE TANK IS REMOVED FOR ANY REASON. THESE STRUTS SHOULD BE INSTALLED I.A.W. IIN-D205-633, EXCEPT REPLACE EYEBOLT WITH AN4 BOLT ON LOWER HARDPOINT. ALSO NOTE THAT IF THE THREADS PROTRUDE THROUGH THE BAR ON THE D3437-XXX STRUT ASSEMBLIES AFTER ADJUSTMENT THEY MAY BE TRIMMED OFF.

### WEIGHT AND BALANCE

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
D205-633-021 <i>HELI-ACCESS-STEP™</i>	14.0 lb 6.35 kg	-50.0 in -1.27 m	-700 in lb -8.06 m kg	94.5 in 2.40 m	1323 in lb 15.24 m kg
D205-633-022 <i>HELI-ACCESS-STEP™</i>	13.2 lb 6.00 kg	+50.0 in +1.27 m	+660 in lb +7.62 m kg	94.5 in 2.40 m	1247 in lb 14.40 m kg
D205-633-023 <i>HELI-ACCESS-STEP™</i>	14.3 lb 6.50 kg	-50.0 in -1.27 m	-715 in lb -8.26 m kg	94.5 in 2.40 m	1351 in lb 15.6 m kg
D205-633-024 <i>HELI-ACCESS-STEP™</i>	13.5 lb 6.14 kg	+50.0 in +1.27 m	+675 in lb +7.80 m kg	94.5 in 2.40 m	1276 in lb 14.74 m kg
D205-633-025 <i>HELI-ACCESS-STEP™</i>	14.6 lb 6.64 kg	-50.0 in -1.27 m	-730 in-lb -8.43 m-kg	94.5 in 2.40 m	1380 in-lb 15.94 m-kg
D205-633-026 <i>HELI-ACCESS-STEP™</i>	13.8 lb 6.27 kg	+50.0 in +1.27 m	+690 in-lb +7.96 m-kg	94.5 in 2.40 m	1304 in-lb 15.05 m-kg

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NO. 34975

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

**APPROVED**



BY:   
D. SHEPHERD (DE # 02)

DATE: 05.08.12  
CERT. NO.: SH96-57  
ISSUE NO.: #5

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DATE 05.08.12		TITLE SIMPLEX TANK STEP	SCALE NTS

**PARTS LIST**

QTY -021	QTY -022	QTY -023	QTY -024	QTY -025	QTY -026	Part Number	Description
X						D205-633-021	Hell-Access-Step™ (LH), High Gear
	X					D205-633-022	Hell-Access-Step™ (RH), High Gear
		X				D205-633-023	Hell-Access-Step™ (LH), Extended High Gear (31")
			X			D205-633-024	Hell-Access-Step™ (RH), Extended High Gear (31")
				X		D205-633-025	Hell-Access-Step™ (LH), Extended High Gear (39")
					X	D205-633-026	Hell-Access-Step™ (RH), Extended High Gear (39")
4	4	4	4	4	4	D2022-101	SPACER
2	2	2	2	2	2	D2022-103	SPACER
				1	1	D2562-005	STRUT
1	1					D2562-011	STRUT
		1	1			D2562-013	STRUT
1		1		1		D2563	WELDMENT ASSEMBLY
				*1	*1	D3165-1	STRUT
1	1					D2565-101	STRUT
1	1					D2565-103	STRUT
1	1					D2565-105	STRUT
1	1					D2565-107	STRUT
1	1					D2565-109	STRUT
*1	*1					D2565-111	STRUT
		1	1			D2565-201	STRUT
		1	1			D2565-203	STRUT
		1	1			D2565-205	STRUT
		1	1			D2565-207	STRUT
		1	1			D2565-209	STRUT
		*1	*1			D2565-211	STRUT
				1	1	D2565-301	STRUT
				1	1	D2565-303	STRUT
				1	1	D2565-305	STRUT
				1	1	D2565-307	STRUT
				1	1	D2565-309	STRUT
1	1					D3437-041	AFT STRUT ASSEMBLY
		1	1			D3437-043	AFT STRUT ASSEMBLY
				1	1	D3437-045	AFT STRUT ASSEMBLY
	1		1		1	D3438-042	WELDMENT ASSEMBLY
1	1	1	1	1	1	AN4-5A	BOLT
4	4	3	3	3	3	AN4-6A	BOLT
1	1	1	1	1	1	AN4-7A	BOLT
1	1					AN4-11A	BOLT
		1	1	1	1	AN4-12A	BOLT
1	1	1	1	1	1	AN4-14A	BOLT
1	1	1	1	1	1	AN44-7A	EYEBOLT
1	1	1	1	1	1	AN5-14A	BOLT
16	16	14	14	14	14	AN960JD416	WASHER
3	3	3	3	3	3	AN960JD516	WASHER
8	8	7	7	7	7	MS21042L4	NUT (or MS21042-4)
2	2	2	2	2	2	MS21042L5	NUT (or MS21042-5)

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BRANCH  
DAO # 01-0-01

APPROVED

BY:   
D. SHEPHERD (DE # 02)

DATE: 05.08.12  
CERT. NO.: SH96-57  
ISSUE NO.: #5

\* ONLY INSTALLED IF TANK IS REMOVED

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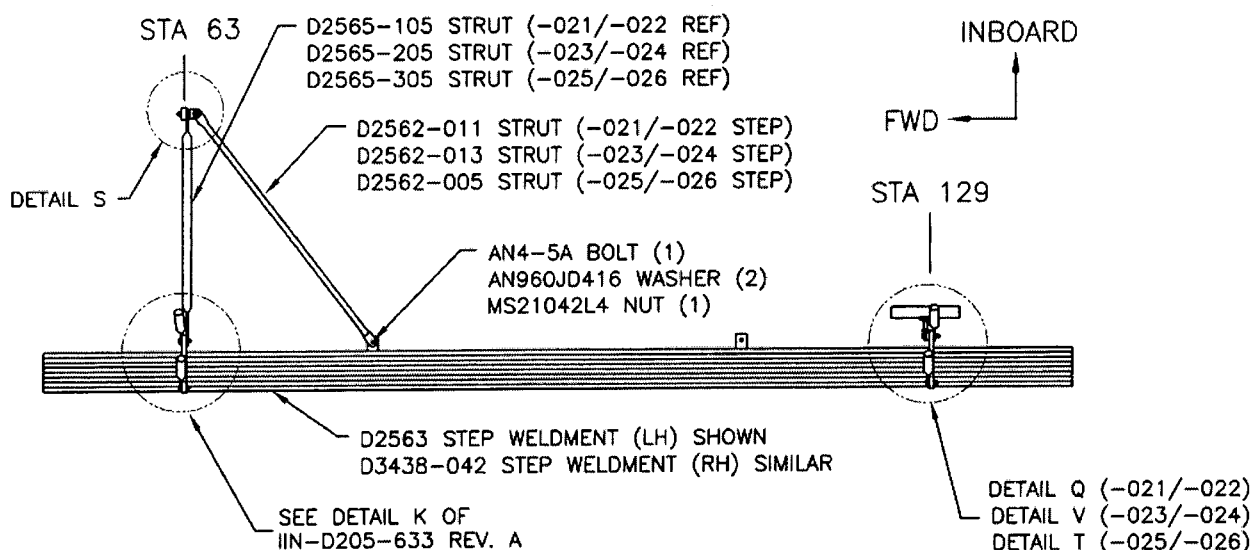
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DATE 05.08.12		TITLE SIMPLEX TANK STEP KIT	SCALE NTS

### INSTALLATION OF D205-633-021/-022/-023/-024/-025/-026

INSTALL D205-633-021/-022 AS PER THE D205-633-011 STEP OF INSTALLATION INSTRUCTIONS IIN-D205-633 REV.A, EXCEPT REPLACE D2565-111 STRUT WITH THE D3437-041 AFT STRUT ASS'Y, REMOVE D2562-001 STRUT, INSTALL D2562-011 STRUT AS SHOWN.

INSTALL D205-633-023/-024 AS PER THE D205-633-013 STEP OF INSTALLATION INSTRUCTIONS IIN-D205-633 REV.A, EXCEPT REPLACE D2565-211 STRUT WITH THE D3437-043 AFT STRUT ASS'Y, REMOVE D2562-003 STRUT, INSTALL D2562-013 STRUT AS SHOWN.

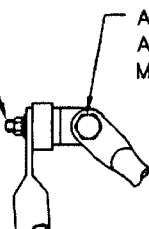
INSTALL D205-633-025/-026 AS PER THE D205-633-015 STEP OF INSTALLATION INSTRUCTIONS IIN-D205-633 REV.A, EXCEPT REPLACE D3165-1 SUPPORT ARM WITH THE D3437-045 AFT STRUT ASS'Y AS SHOWN.



**D205-633-021/-023/-025 SHOWN.**  
**D205-633-022/-024/-026 SIMILAR**  
(VIEW LOOKING DOWN)

AN44-7A EYEBOLT (1)  
AN960JD516 WASHER (1)  
MS21042L5 NUT (1)

**DETAIL S**  
NOT TO SCALE



AN4-6A BOLT (1)  
AN960JD416 WASHER (2)  
MS21042L4 NUT (1)

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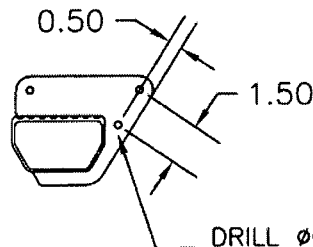
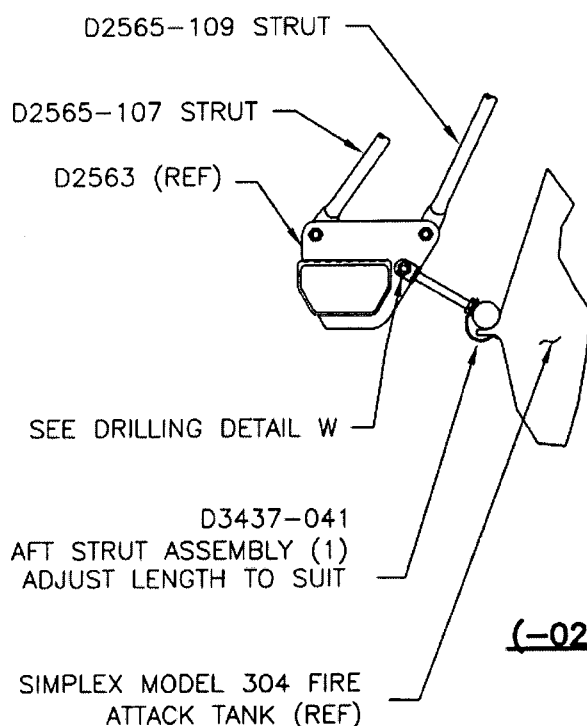
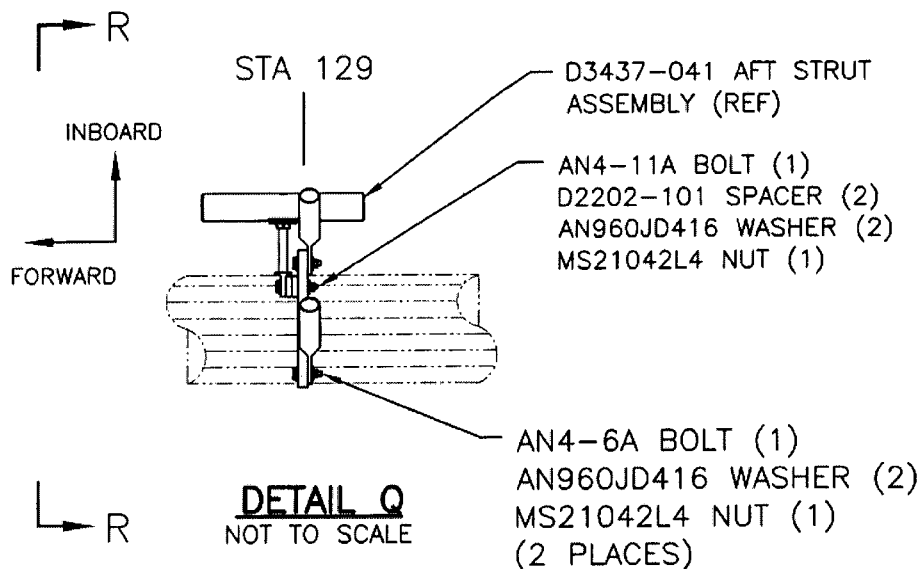
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**(-021/-022 STEP)**

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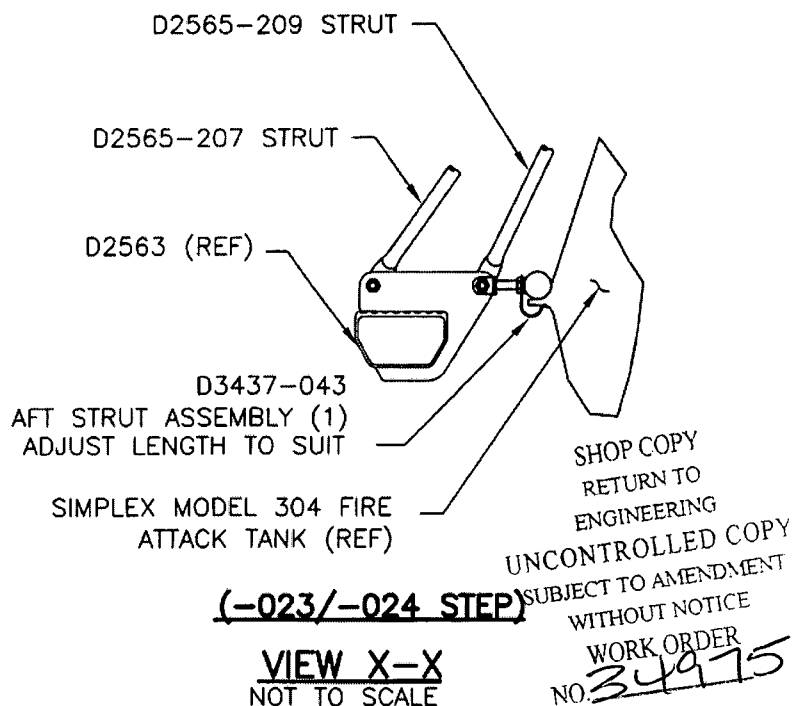
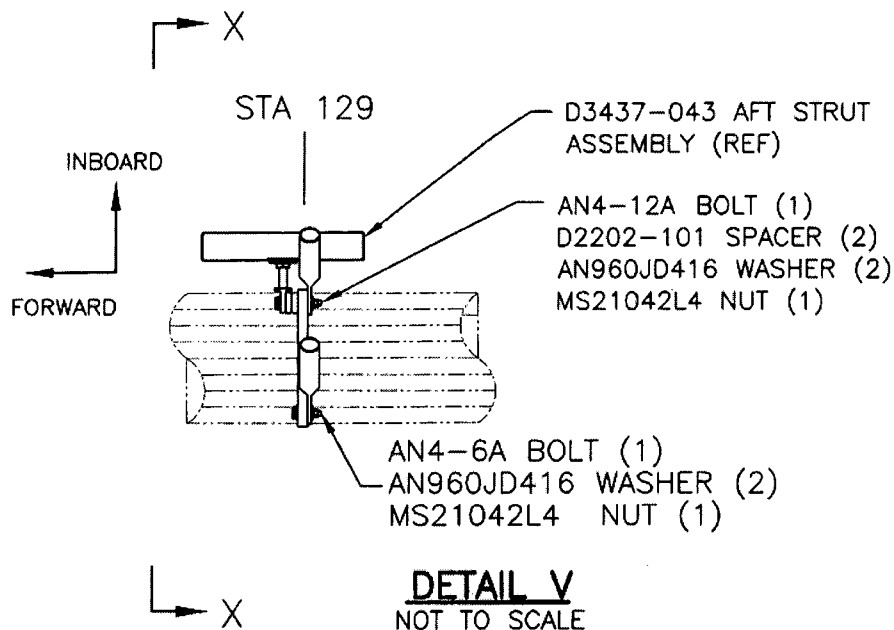
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DATE 05.08.12		TITLE SIMPLEX TANK STEP	SCALE NTS



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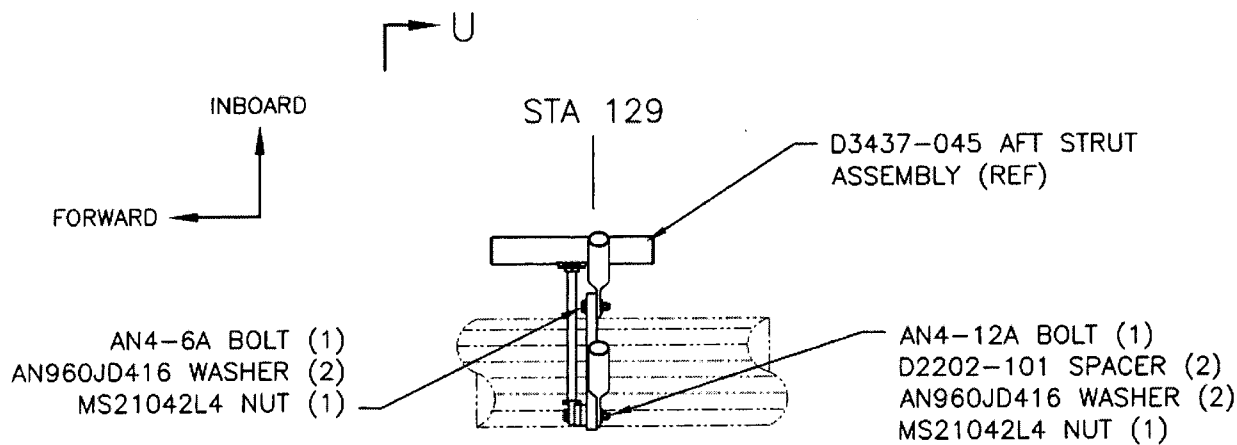
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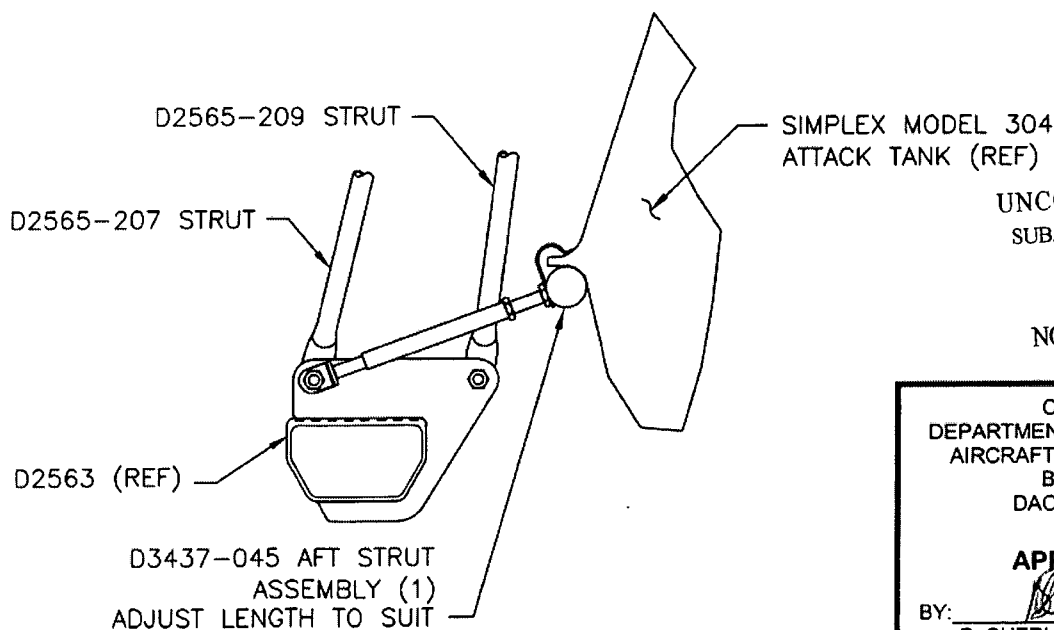
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DATE 05.08.12		TITLE SIMPLEX TANK STEP	SCALE NTS



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AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

**APPROVED**

BY: *[Signature]*  
D. SHEPHERD (DE # 02)

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